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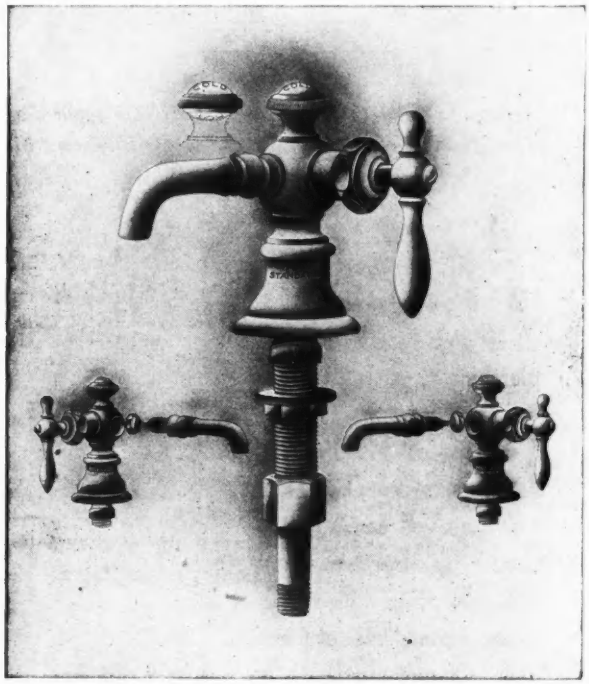

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CONTENTS

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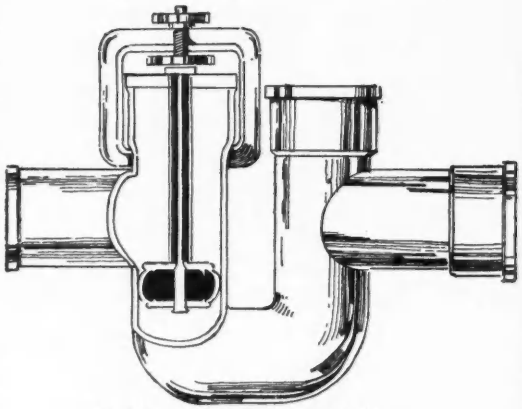
Testing "roughing in".
Applying the water test. Applying the air test.
Testing finished work.
Applying the smoke test.
Testing old plumbing.
Applying the peppermint test.
Testing gas piping.



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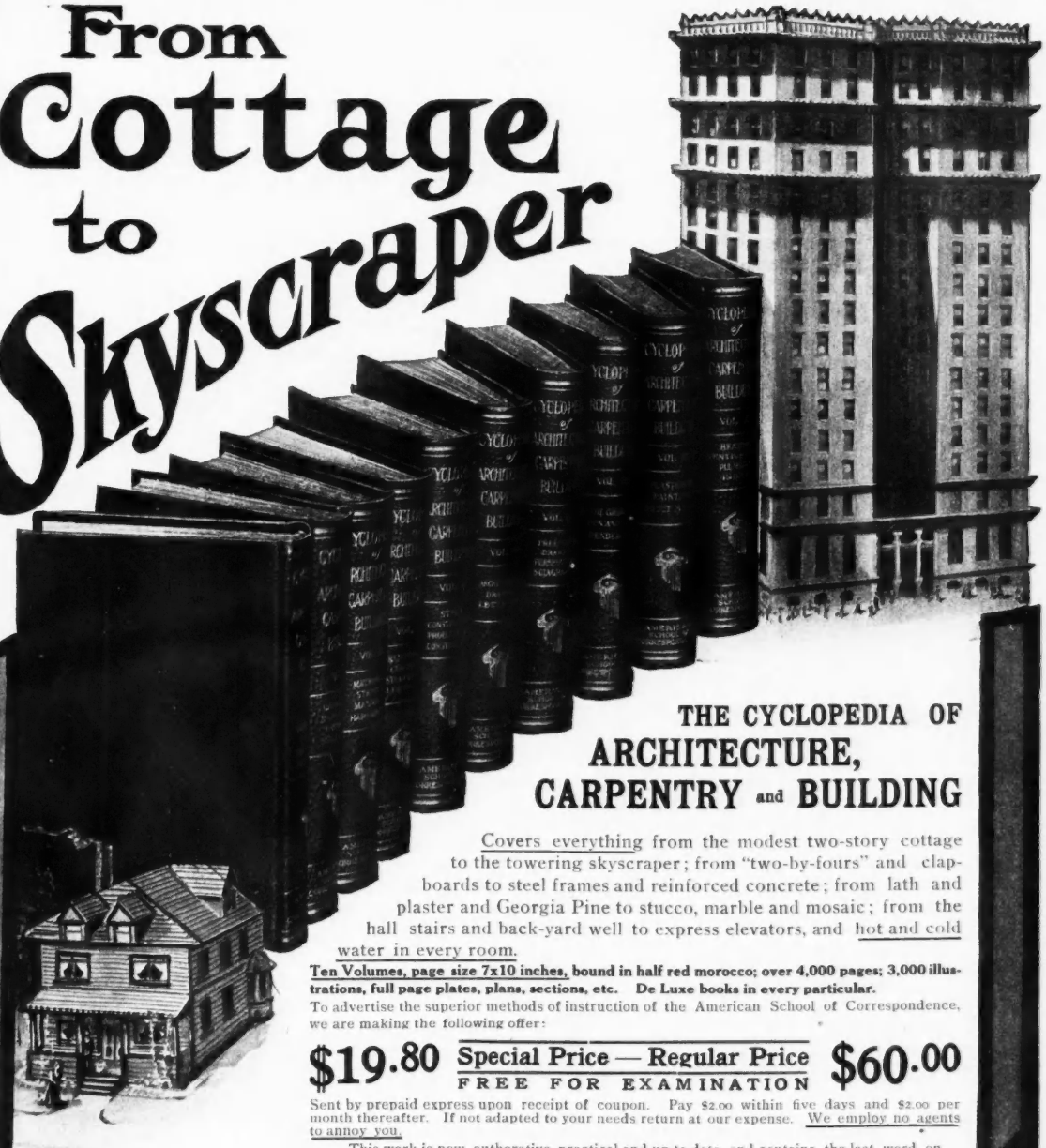

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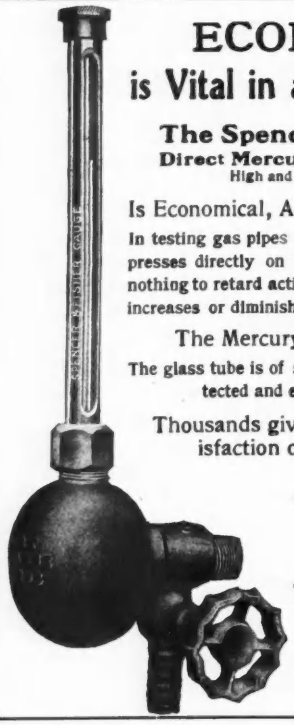

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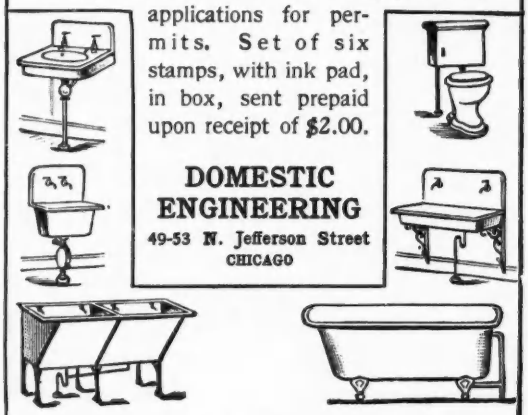

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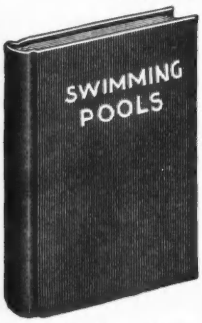

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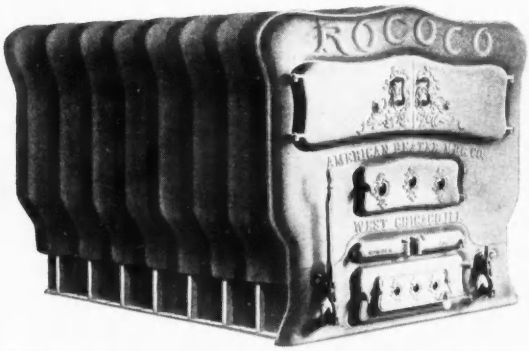

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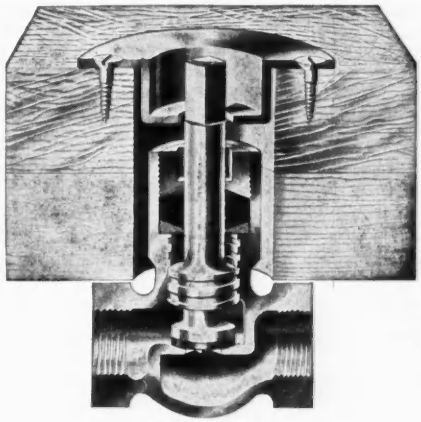

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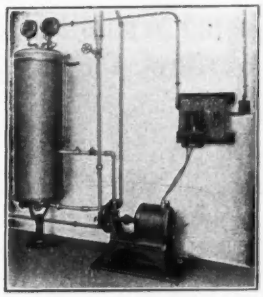

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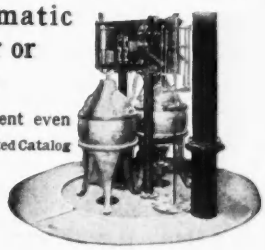

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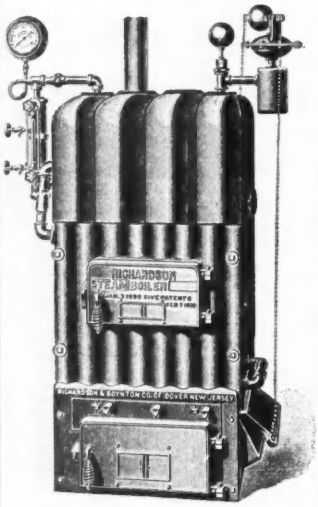

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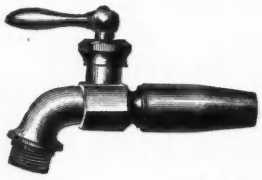

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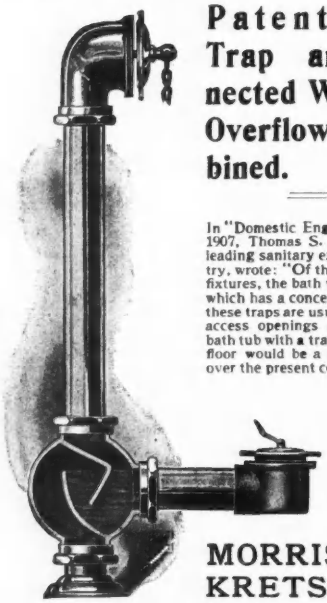

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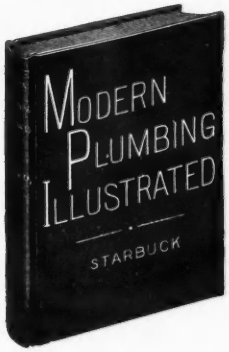

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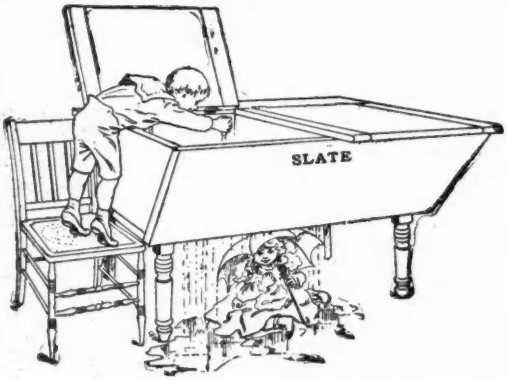

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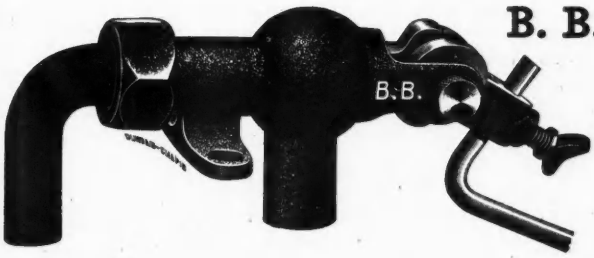

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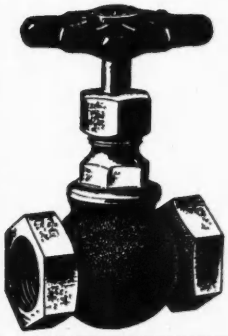

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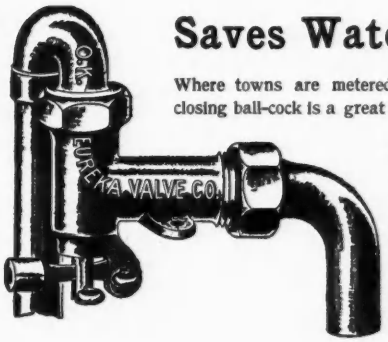

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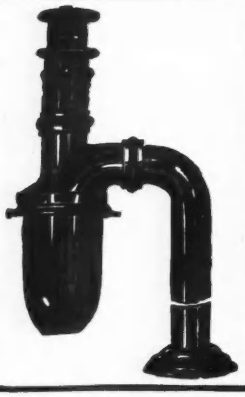
48-50 Pearl St. BOSTON 209-11 Franklin St.

Sewer and Tide Trap.



Don't be deceived.

THE ORIGINAL

BOWER TRAP

is manufactured exclusively by us and each and every one is stamped with our name.

DEMAND THE ORIGINAL

THE MONARCH BRASS CO.

Cleveland, Ohio.

PLUMBERS' CHAIN, EIGHT HOOKS, SPLIT LINKS, CLOSET PULLS, PIPE STRAPS, JACK CHAIN, ETC.

Write for Catalogue of PLUMBERS' SPECIALTIES To

The Smith & Egge Mfg. Co.
BRIDGEPORT, CONN.

Trap Screw Ferrules, Brass and Iron Body

High Grade Plumbers'

SUPPLIES

Write us for prices when in the market for

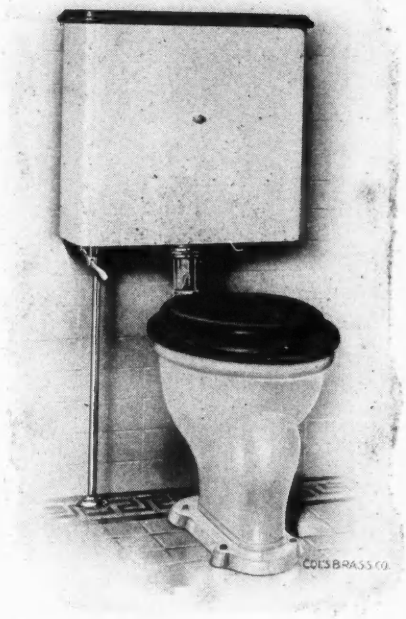
Ferrules—End Reducing or Trap Screw—Stop and Waste Cocks—Compression Work, Gas Goods, etc.

End Ferrules, All Sizes

OUR GOODS WILL PLEASE YOU Send for catalogue

ERIE, PA. J. B. CAMPBELL BRASS WORKS. ERIE, PA.

THE ADVERTISEMENTS IN DOMESTIC ENGINEERING ARE INDEXED. TURN TO PAGE XXVI.



PATENTED Fig. 310 White Enamel

All the good features of the best wood tank with none of its faults.

It Can't Sweat

"The Columbus" All Metal Closet Tank

Approved by the Plumber
Specified by the Architect
Adopted by the Government

"Not a Stick of Wood in It"

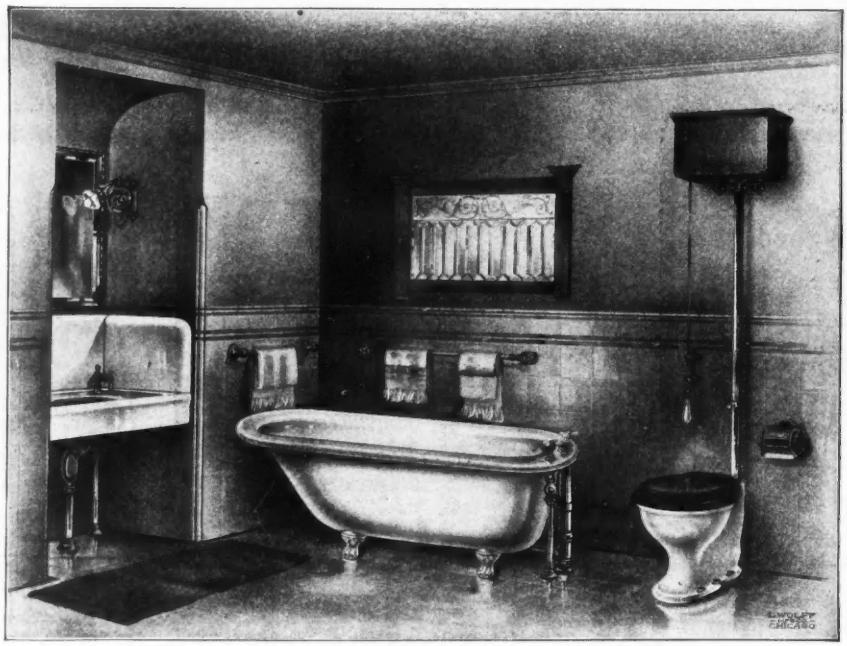
But lighter, stronger, more durable than wood. Not affected by moisture, thereby insuring perfect and lasting adjustment of parts. It's a Tank that makes satisfied customers.

Furnished in exact reproduction of mahogany, plain, natural or golden oak; also white enamel.

"The Latest Achievement" fully describing this Tank, sent upon request.

The COLUMBUS BRASS CO.
Columbus, Ohio

1855-1909
FIFTY THREE YEARS OF QUALITY
WOLFF'S PLUMBING GOODS



ADVANTAGES

The architect specifying Wolff Plumbing Equipment exclusively is conscious of the practical advantages of using a line of plumbing fixtures each detail of which is designed and manufactured by one organization.

The Wolff line contains no makeshifts and no combinations that are the result of assembling the separate product of several manufacturers.

L. WOLFF MANUFACTURING CO.

ESTABLISHED 1855

MANUFACTURERS OF PLUMBING GOODS EXCLUSIVELY

THE ONLY COMPLETE LINE MADE BY ANY ONE FIRM.

SHOW ROOMS, 91 DEARBORN STREET

DENVER CHICAGO TRENTON

The Advertisements in Domestic Engineering Are Indexed. Turn to Page XXVI.

A New Fixture

"Standard" "Avoy" Lavatory

The "Avoy" shown here for the first time is a fixture of rare beauty and attractiveness, and will quickly commend itself to all who are interested in advancement in the making of sanitary equipment. Our equipment is such as to permit us to give prompt attention to orders.

AVOY—Plate P 516

"Standard" Porcelain Enameled "Avoy" Design Lavatory, with Slab, Bowl and Apron all in one piece, Porcelain Enameled All-over Pedestal, Nickel-plated Torrance Pattern Fuller Faucets, China Handles and Indexes, and Nickel-plated Imperial Waste, with China Indexed Knob Top, Unique Trap, Waste and Vent and Supply Pipes to Wall.

DIMENSIONS

Bowl . . . 13 x 17 inches Slab . . . 25 x 33 inches

Plate P 516, enameled all over as described	$55.00
Plate P 516A, enameled all over with Imperial Waste only, less Faucets, Supply Pipes and Trap	40.50

Standard Sanitary Mfg. Co.

PITTSBURGH, U. S. A.

The Trenton Potteries Company No. 41 Combination

Specification.—Vitreous China No. 41 Syphon-Action Hopper and Trap Closet, fitted with Neversplit Oak Seat and Lid with N. P. Brass Hinges, and Vitreous China plain lowdown square pattern tank, fitted with China indexed push-button, brass flushing fittings complete with N. P. Brass supply pipe from floor and N. P. Brass offset to closet.

List price, complete as above described, $30.00

Manufactured exclusively by

Trenton, N. J.,
U. S. A.

The Trenton Potteries Company

The Canadian
Trenton Potteries Co.,
Ltd.
St. Johns, P.Q., Can.

The Advertisements in Domestic Engineering Are Indexed. Turn to Page XXVI.

THE "HAAS" Hydrometer Flush Valve

Muddy Water Will Not Affect Valve

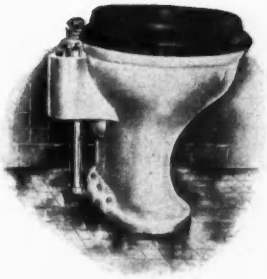
The most simple flushing device ever invented

No Multiplicity of Parts

Push the button; It does the rest

The Valve is guaranteed to work on any pressure above 15 pounds and in any kind of water

Write for prices and circulars



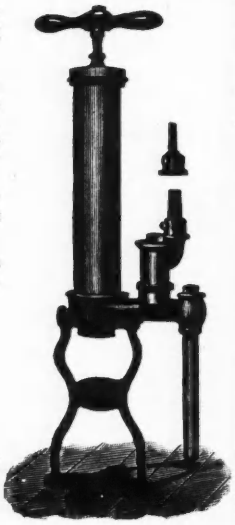
The Hydrometer & Specialty Company

Sole selling agents for the United States

Kokomo, Indiana, U. S. A.

Intelligent Economy

forbids the purchase of three pumps when you can get ONE that will do the work of three.



THE PERKES
COMBINATION AIR FORCE AND TEST PUMP

can be used for testing soil pipe, proving gas pipe, and is the best force pump on the market.
No stuffing boxes; all valves are on the outside, and work equally well with air or water.

Patented March 15, 1898
Patented June 18, 1901

Send for Complete Discriptive Circular

Estate of

Charles Perkes

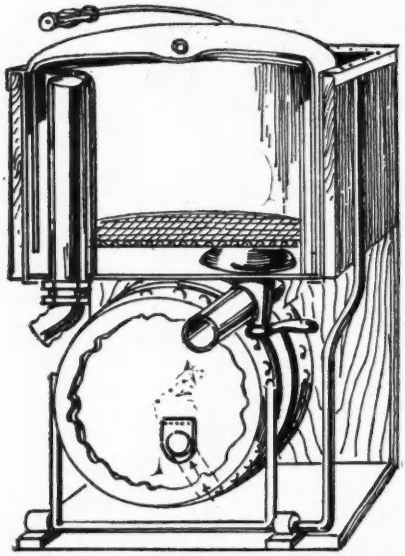
Manufacturer and dealer in Plumbing Supplies

ESTABLISHED 1856

627-629 Arch Street, Philadelphia

Thomson's S. P. Smoke Machine

FOR TESTING PLUMBING



EVERY HONEST PLUMBER SHOULD HAVE ONE

For sale by leading jobbers. Send for circular and prices

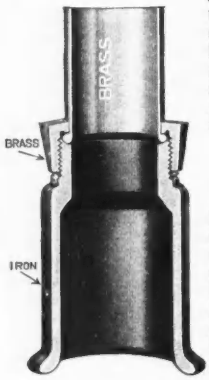
SCRANTON SPECIALTY CO., Scranton, Pa.

A Soil Pipe Union

FERRULE

With a Ground Joint

Made to connect 1¼ in., 1½ in. and 2 in. lead pipe with 2 in. cast iron soil pipe by soldering or wiping the lead pipe to the long brass tube or tail piece. Acknowledged by plumbing inspectors to be the best Combination Cleanout and Ferrule on the market. It is made with an iron body, brass nut and tail piece, or all brass. In two sizes. The small size takes both 1¼ in. and 1½ in. lead pipe. The large size takes 2 in. lead pipe only.



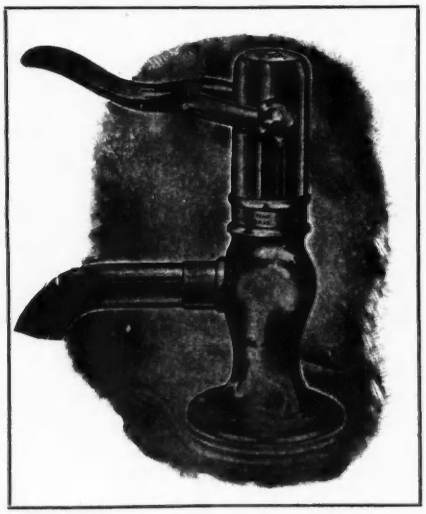
Saves a "Y" and cleanout and caulking two joints

No plumber can afford to be without them. The best fitting in the world to use on a repair job. Ask your jobber for them and if he does not have them, give us his name and we will see that he gets them for you, or we will name you a jobber near you that has them in stock. Address

Athol Pump Company

ATHOL, MASS.

The Broughton Self-Closing Basin Cocks have been in use for many years. Some of the largest Hotels and Public Buildings in the United States are equipped with these goods. Made in Brass, Nickel or Silver Plated, and in Solid Silver-Metal.



EVERY ONE WARRANTED

Manufactured Only by **E. STEBBINS MFG. CO.**

SPRINGFIELD, MASS. **Works at Brightwood.**

THE ADVERTISEMENTS IN DOMESTIC ENGINEERING ARE INDEXED. TURN TO PAGE XXVI.

WE PROTECT YOU.

That's a principle of our business. What's more, we are going to advertise for you also. We are now undertaking a campaign to send the architect to you for his best fixtures to convince him that he can secure everything he wants in gas, electric or combination fixtures from our catalogue through his local dealer.

Will you co-operate and take a profit?

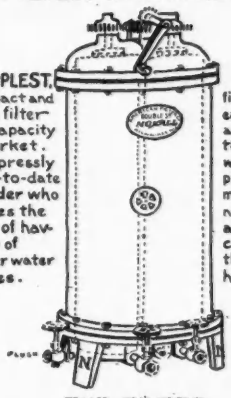
Write.

R. Williamson & Co.,
88-92 W. Washington St.,
CHICAGO.

WE WANT ONE

DEALER IN EVERY TOWN TO SELL THE NOXALL DOUBLE SENIOR

THE FILTER WITH A REPUTATION



THE SIMPLEST, most compact and best made filter of large capacity on the market. Made expressly for the up-to-date house-holder who recognizes the necessity of having plenty of pure, clear water at all times.

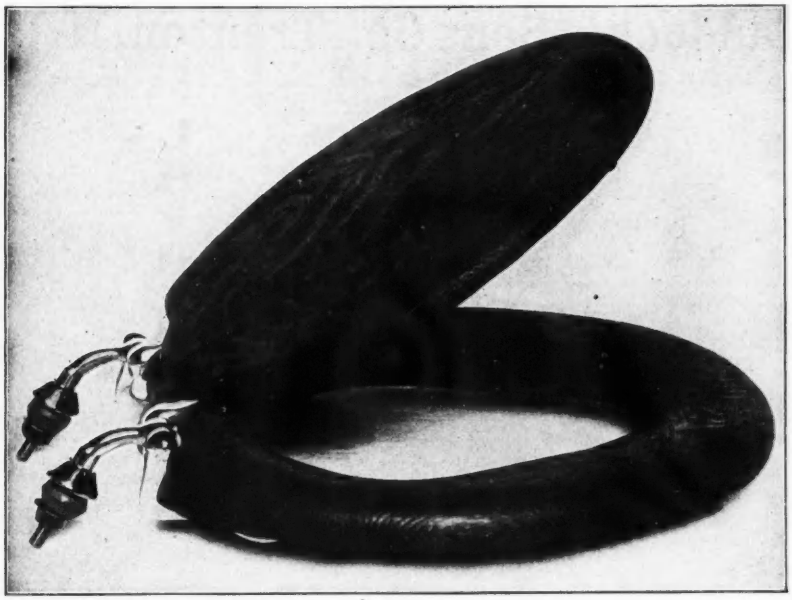
Has two filtering cylinders each 8 x 36 inches, as indicated by the dotted lines, weighs about 800 pounds, is made of cast iron, nicely finished and is of ample capacity for the largest homes.

THE FILTER THAT'S NEVER OUT OF KILTER

MADE BY

AMERICAN FILTER CO.

MILWAUKEE, WIS.



The "Never-Split" Closet Seat

has, in addition to the tongue and groove and glue, a strong steel bolt in every joint, which holds like a vise.

The bolt cannot rust, corrode or break out.

That We Guarantee

It's vise-like grip is positive assurance that the joints will never even peep—not under the most trying conditions—aboard a ship or railroad car.

Made in all sizes and woods and finished to comply with the most exacting specifications

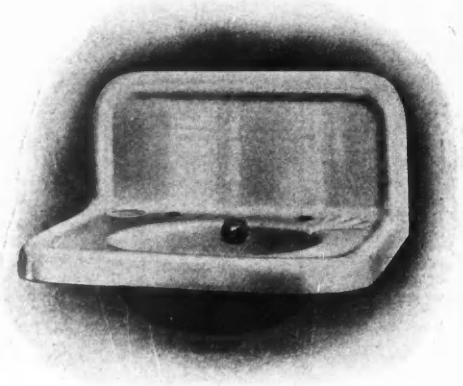
Write for "Style Book" of "Never-Splits" for use with your Jobber.

Never-Split Seat Company

EVANSVILLE, INDIANA

"HUMPHRYES"
PORCELAIN ENAMELED WARE

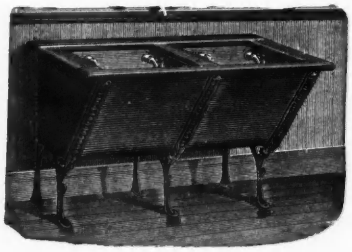
The Guarantee is Absolute



Ask for Humphryes Porcelain Enameled Ware—It is strictly up-to-date and the quality is the best that can be produced—Handsome Design.
A sample order will prove our statements.

The Humphryes Mfg. Co., Mansfield, O.

New York Office and Warehouse, 636-638 W. 34th St.



Solid Porcelain, Highly Glazed Laundry Fixtures

FOR YOUR PARTICULAR JOBS

They are imperishable and impenetrable therefore wholly sanitary. They are sold as low in price as superior design, construction and material will permit and are cheap in the best sense of that term. We invite correspondence and will send our complete catalogue on request.

Charles Graham Chemical Pottery Works

986-1018 Metropolitan Avenue Brooklyn, N. Y.

Thomas Maddock's Sons Co., Trenton, N.J.

VITREOUS

LAVATORIES

18 x 20 inches
Round front with combination fixture

WRITE FOR CATALOGUE AND PRICES ON VITREOUS LAVATORIES.

THE ADVERTISEMENTS IN DOMESTIC ENGINEERING ARE INDEXED. TURN TO PAGE XXVI.

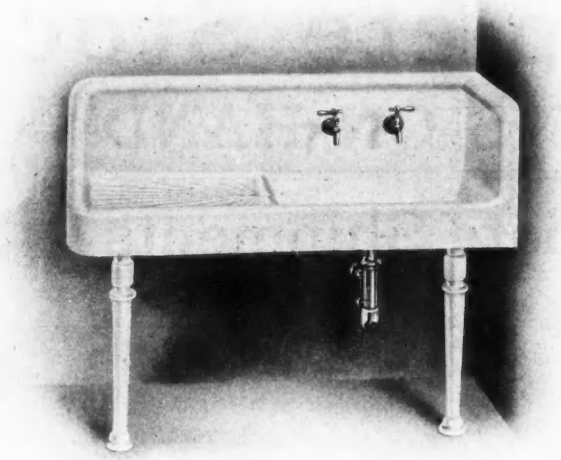


Plate D-93 Tennessee Sink. (Patented.)

THIS SINK IS DIFFERENT

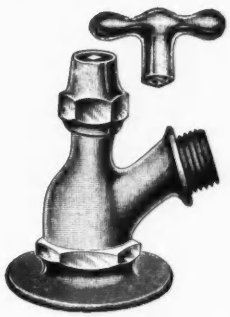
from anything on the market. 20 x 30 inch sink, 20x24 inch drain board, 12 inch back, 5 inch apron, and corner piece cast integral. Drain board depressed 2½ inches, length over all 52 inches. Made for either right or left corner, supported by both wall hanger and legs as shown.

Write for catalogue showing entire line of "Southern Beauty" lavatories, one-piece sinks, etc

THE CAHILL IRON WORKS

New York Office and Warehouse: 101 Beekman St. CHATTANOOGA, TENN.

Boston Pattern Compression Sill Cocks



We can make immediate shipment of both patterns, in Rough Brass Bodies with Polished and Nickel Plated Trimmings, Polished Brass All Over, and Finished and Nickel Plated all over.

LET US QUOTE YOU ON YOUR IMMEDIATE REQUIREMENTS

Street & Kent Manufacturing Company

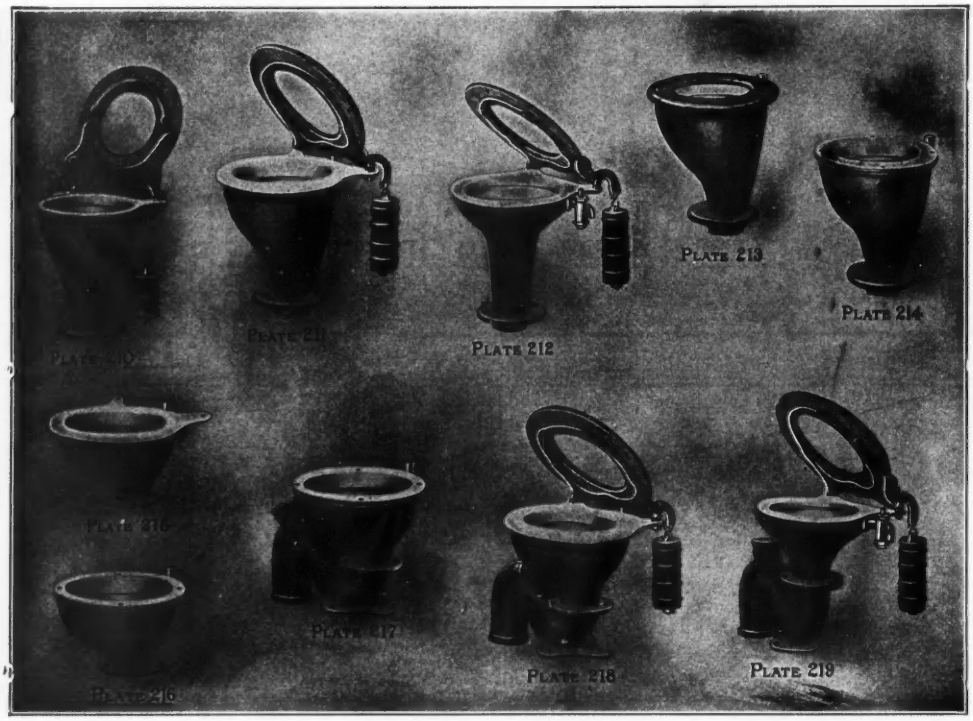
43-45 FULTON ST., CHICAGO, ILL., U. S. A.

A Complete Stock

ALWAYS ON HAND

Immediate Shipments

HOPPERS



HOPPERS

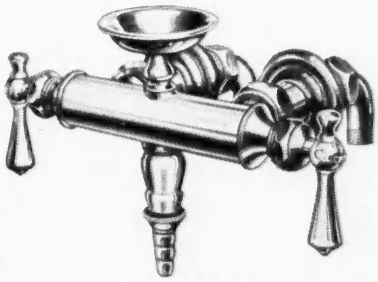
Are you buying your hoppers right?

A letter addressed to us will soon give you this information.

Fleck Bros. Co., Philadelphia, Pa.

There are reasons why you should insist on your jobber furnishing you the Puritan

The design is handsome and plain.
No crevices to catch dirt.
No sharp angles that make it hard to clean.
It's made of all New Metal.
All moulds are dried, insuring the smoothest possible castings.
PURITAN plate will not peel nor blister, and every cock is strongly wrapped and boxed.
A special 'Red' ball is used on the hot water side.
It is packed with four asbestos-graphite rings--two on each side.
Every cock is tested under water pressure before shipment and therefore no need of sending your man back on the job after the PURITAN is installed.
Every cock absolutely guaranteed.



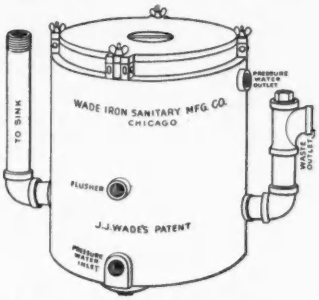
Patent Pending

Write to us direct giving us your jobber's name and we will send you a Book telling how we make the "PURITAN"

INSIST ON THE PURITAN. THEY COST NO MORE THAN ORDINARY COCKS

The Central Brass & Fixture Company, Springfield, O.

Wade
Accessible Flushing Clean-Out Water-Jacket Grease Catch Basin



For Kitchen Sinks in accordance with all Health Ordinances

2 Sizes { 13 x 15 in. outside measurements
23 x 22 in. outside measurements

The Simplest and most "Sanitary" Kitchen Grease Basin in the market

Price and Catalogue of Wade's Sanitary specialties promptly furnished

WADE IRON SANITARY MFG. CO.
43 E. Harrison St., Chicago, Ill.

The Champion Hydraulic and Electric Water Lifts

Hydraulic

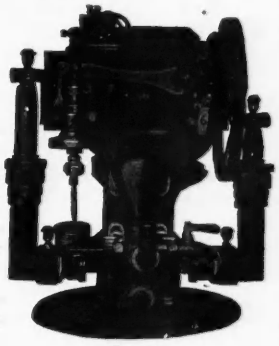
Hydraulic Water Lift for pumping soft water.

Entirely automatic and noiseless. Works when water is used; stops when consumption ceases. Requires no oil or attention. The best Hydraulic Lift on the market.

Electric Water Lift to Increase Water Pressure

In the upper stories of buildings where the city supply is not sufficient, or for pumping soft water. A compact and powerful pump. Entirely automatic. Made either for direct or alternating current.

The Champion Lifts are made of the best material and guaranteed to give satisfaction.



Electric

THE CLEVELAND FAUCET CO.
Cleveland New York Pittsburgh Chicago St. Louis San Francisco

Plate 4. Unique Automatic, with Tank behind Partition.

CLOGGING IMPOSSIBLE
FILLS NOISELESSLY
SAVES WATER
NEVER LEAKS
Put one in your show room
and get the crowd first.
Watch the next adv., March 21, '08.

The Unique

is the Newest and Best installation of a water closet wherever there is Water Pressure of over 10 pounds. The truth of this statement becomes more impressive after you have read our catalog. You should at least know the story. Write for it today.

Staples Valve Company

109 So. William St., Newburgh, N. Y.

BERGER'S STEEL SINK BRACKET

REASONS WHY YOU SHOULD HANDLE IT

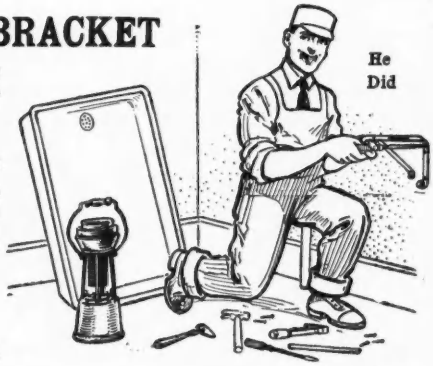
No Breakage No Packing
Less Labor Less Freight

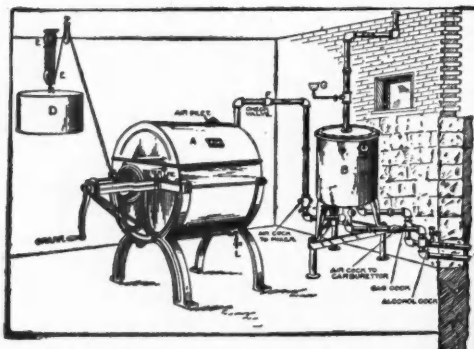
The movable Brace. The Simple Construction. Most Durable and Complete Bracket on the Market. Cheaper and neater than all others. Recommended by Architects.

For Sale at Your Plumbing Supply House

B. A. BERGER

Richmond, Virginia





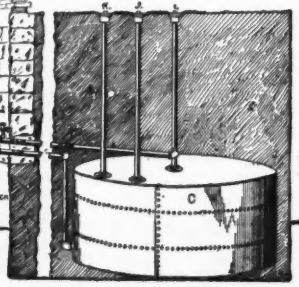
Matthews Gas Machine and Automatic Mixer

This machine has made gas thirty years at ¼ cent per hour

per 80 candle power. Makes gas for lighting, cooking and fuel.

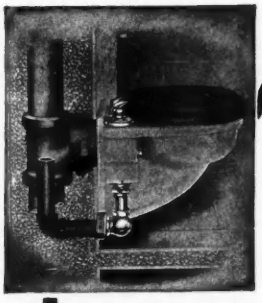
Matthews Gas Machine Co.

40 Dearborn Street, Chicago



WRITE FOR OUR PROPOSITION

THE ADVERTISEMENTS IN DOMESTIC ENGINEERING ARE INDEXED. TURN TO PAGE XXVI.



THE ARKIN

THE ARKIN
A MODERN CLOSET

The "ARKIN" is a wall closet attached to the wall and securely fastened to soil pipe with heavy bolts

The "ARKIN" is the only Closet adapted for buildings of **Reinforced Concrete Construction**

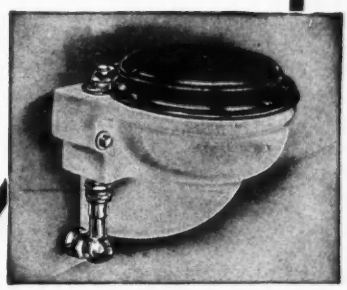
The "ARKIN" is a radical departure from the Closets now commonly in use. Requires less water to flush out. No part is attached to the floor. Less space occupied by this bowl than any other.

FOR UP-TO-DATE SANITARY PLUMBING ALWAYS SPECIFY GOODS MANUFACTURED BY THE FEDERAL COMPANY

FEDERAL COMPANY

Halsted & Fulton Sts., CHICAGO, ILLINOIS

We manufacture a complete line of Sanitary Plumbing Fixtures



THE ARKIN Fig. A—2030

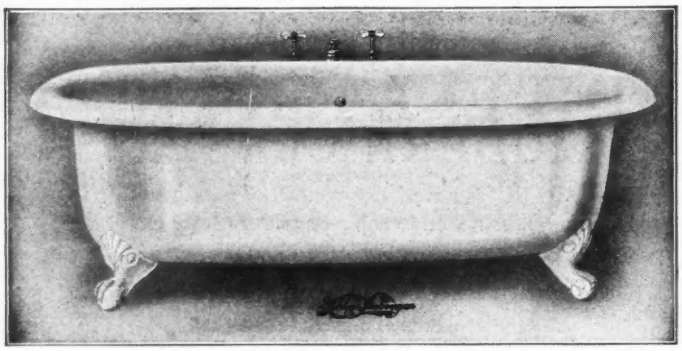
If you look for this Trade Mark and find it on your Closet Seats and Tanks,—you then have

The Highest Quality

Our Catalog of Natural Woods and finish may be obtained by giving us the name of your regular jobber.

Knott-Van Arnam Mfg. Company

FORT WAYNE, INDIANA



THE "DUCHESS"

If Enameled Inside and Exterior Finished with No. 1 Hand Polished Zinc White Paint
PLATE K 406

Nominal Size . 5 feet List Price . . $67.50

If Enameled Inside Only
PLATE K 406

Nominal Size . 5 feet List Price . . $56.50

Porcelain Enameled Iron Wide Flat Bottom "Duchess" Pattern Bath Tub with 3¾ inch Roll Rim. Fitted with N. P. Brass Bottom Bell Supply Fitting with Compression Valves and Secret Waste, both with China Indices.

DIMENSIONS

Length over Rim, 5 ft. 6½ in.
Width Inside . . . 26 in.
Width over Rim at Center . . . . 33½ in.
Depth Inside . . 17¾ in.
Height from Floor to Top of Rim . . . 21⅝ in.

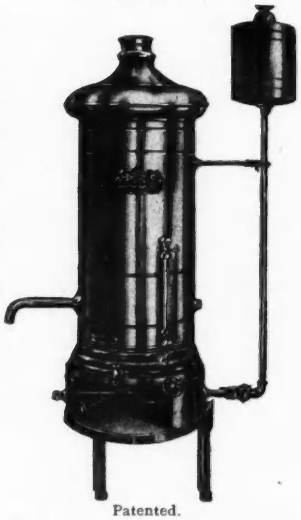
J. M. KOHLER SONS CO.

SHEBOYGAN, WIS.

NEW YORK, 48 Cliff St. **CHICAGO,** 514 First National Bank Bldg. **OAKLAND,** 1127 5th Ave.

In times like these, it is important that every dollar invested in stock should make your business strong. Holding your own is as important as making money, if you can't do both. The season for installation of Instantaneous Water Heaters will soon be on and you must turn this thought into a customer's mind. Display a heater in the window or the show room. Make him want to buy.

DAYTON "C"



Patented.

Dayton Heaters are the highest type of heater on the Market today. No other heater has its selling points

Write us for booklet and we will quote you later

DAYTON SUPPLY COMPANY, Dayton, Ohio

WE ARE MANUFACTURERS Address Dept. D

THE ADVERTISEMENTS IN DOMESTIC ENGINEERING ARE INDEXED. TURN TO PAGE XXVI.

ALWAYS READY

No 1 Fire Pot $6 Net

Jobbers supply at factory price, or we will ship direct if cash accompa ies the order.

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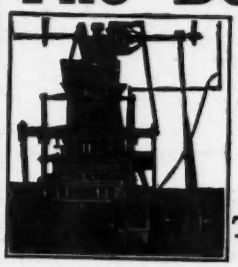

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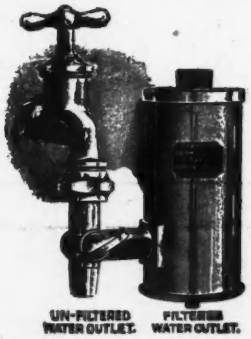

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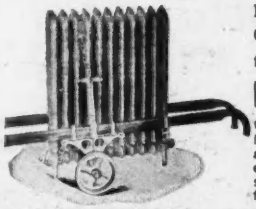

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